RF Exposure Report

Report No.:	SA171027E06B
FCC ID:	O6L-VM2506
Test Model:	VM2506
Received Date:	Nov. 10, 2017
Test Date:	Dec. 14, 2017
Issued Date:	July 06, 2018
Applicant:	TRANWO TECHNOLOGY CORP.
Address:	No.236, Sec. 3, Huanbei Rd., Jubei City, Hsinchu County 30265, Taiwan
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Hsin Chu Laboratory
Lab Address:	E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan R.O.C.

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Release Control Record

Issue No.	Description	Date Issued
SA171027E06B	Original release.	July 06, 2018

1 Certificate of Conformity

Product:	2.4GHz Digital RF Module
Brand:	TRANWO
Test Model:	VM2506
Sample Status:	ENGINEERING SAMPLE
Applicant:	TRANWO TECHNOLOGY CORP.
Test Date:	Dec. 14, 2017
Standards:	FCC Part 2 (Section 2.1091) KDB 447498 D01 General RF Exposure Guidance v06 IEEE C95.1-1992

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by : _____ , **Date:** July 06, 2018

Claire Kuan / Specialist

Approved by : _____ , **Date:** July 06, 2018

May Chen / Manager

2 RF Exposure

2.1 Limits For Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm^2)	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	($180/f^2$)*	30
30-300	27.5	0.073	0.2	30
300-1500	…	…	f/1500	30
1500-100,000	…	…	1.0	30

f = Frequency in MHz ; *Plane-wave equivalent power density

2.2 MPE Calculation Formula

$Pd = (Pout*G) / (4*pi*r^2)$

where

Pd = power density in mW/cm^2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

2.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

2.4 Antenna Gain

Model Name	Antenna Net Gain (dBi)	Frequency range (GHz)	Antenna Type	Connecter Type
VM2506RX(202-000520-00)	2	2.4~2.5	Dipole	i-pex(MHF)
VM2506TX(202-000521-00)	2	2.4~2.5	Dipole	i-pex(MHF)

2.5 Calculation Result of Maximum Conducted Power

Frequency Band (MHz)	Max Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm^2)	Limit (mW/cm^2)
2412-2462	506.991	2	20	0.15986	1

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